

WHAT IS CLAIMED IS:

1. An infrared sight glass for fitting over an aperture on an enclosure of electrical equipment for thermographic inspection comprising:

5 means for supporting an infrared transmitting medium;

means for attaching the supporting means adjacent to the aperture on the enclosure of the electrical equipment without accessing an inside of the enclosure; and

10 means for attaching a cover to an outer surface of the supporting means.

2. The infrared sight glass as recited in Claim 1 wherein said cover comprises security keying.

15 3. The infrared sight glass as recited in Claim 1 wherein said supporting means comprises a first gasket positioned between said infrared transmitting medium and a recessed portion of the supporting means.

20 4. The infrared sight glass as recited in Claim 3 wherein said first gasket comprises a double sided self-adhesive gasket.

5 5. The infrared sight glass as recited in Claim 1
wherein a second gasket is positioned between a ring
surface of said supporting means and a corresponding
surface around the aperture of said enclosure.

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10 6. The infrared sight glass as recited in Claim 1
wherein said supporting means comprises holes for
receiving screws to attach said supporting means to said
enclosure from outside said enclosure.

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15 7. The infrared sight glass as recited in Claim 1
wherein said infrared sight glass comprises a tag shield
having an aperture corresponding to and adjacent to the
aperture of said enclosure, said tag shield being
positioned between said enclosure and said supporting
means.

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20 8. The infrared sight glass as recited in Claim 7
wherein a third gasket is attached between said tag
shield and a ring surface of said supporting means, and a
fourth gasket is attached between said tag shield and
around the aperture of said enclosure.

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9. The infrared sight glass as recited in Claim 1
wherein said cover comprises diametrically opposite
keyhole slots for receiving said attaching means and
enabling said cover to be rotated into a secured position
5 on said infrared sight glass.

10. The infrared sight glass as recited in Claim 1
wherein said cover comprises diametrically opposite holes
for receiving said attaching means.

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11. A method of fitting an infrared sight glass
over an aperture of an enclosure of electrical equipment
for thermographic inspection comprising the steps of:

15 supporting an infrared transmitting medium within a
frame;

attaching said frame adjacent to said aperture on
said enclosure without accessing an inside of said
enclosure; and

20 providing a security cover on an outer surface of
said frame.

12. The method as recited in Claim 11 wherein said
step of attaching said supporting means to said enclosure

comprises the step of providing holes in said frame for receiving screws to secure said frame to said enclosure.

5 13. The method as recited in Claim 11 wherein said

method comprises the step of providing a tag shield having an aperture corresponding to and adjacent to said aperture of said enclosure, said tag shield being positioned between said enclosure and said frame.

10 14. The method as recited in Claim 11 wherein said step of providing a security cover comprises the step of providing diametrically opposite key slots in said cover for inserting security keying screws.

15 15 . The method as recited in Claim 11 wherein said step of providing a security cover comprises the step of providing screws having predetermined keying for securing said security cover to said frame.